## Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

1. (original) An imaging apparatus, comprising:

a three-dimensional substrate in which a partition wall having an opening at a central portion is formed so as to cross an inner cavity;

an optical filter that is fixed on a first flat surface of both surfaces of the partition wall so as to cover the opening;

a semiconductor imaging device that is face-down mounted on a second flat surface of the partition wall with an imaging area facing the opening; and

an optical system for forming images that is installed on a side of the optical filter in the inner cavity of the three-dimensional substrate,

the opening of the partition wall being closed on both sides with the optical filter and the semiconductor imaging device so as to form a cavity,

wherein an air passage for allowing communication between the cavity and an exterior of the three-dimensional substrate is formed on the first flat surface, and has a labyrinth structure that causes a flow rate of air passing through the air passage to vary depending on a location in the air passage.

- 2. (original) The imaging apparatus according to claim 1, wherein the labyrinth structure of the air passage is defined by a zigzag shape, a shape inclined as a whole or a circular-arc shape.
- 3. (currently amended) The imaging apparatus according to claim 1 or 2, wherein the labyrinth structure of the air passage is formed by providing a rib crossing the air passage so that a height of the air passage in a thickness direction of the optical filter varies along a flow direction of the air passage.
- 4. (currently amended) The imaging apparatus according to any one of claims 1 to 3 claim 1,

wherein the labyrinth structure of the air passage is formed by providing a concave part on a side edge of the air passage so that a width of the air passage within the first flat surface varies along the flow direction of the air passage.

- 5. (original) The imaging apparatus according to claim 1,
- wherein the three-dimensional substrate has such a low light transmittance with respect to a region sensitive to light reception by the semiconductor imaging device that substantially no unwanted signal is generated.
- 6. (original) The imaging apparatus according to claim 1,
  wherein the air passages are located at a position axisymmetric with respect to
  the opening in the three-dimensional substrate.
- 7. (original) A method for manufacturing an imaging apparatus that uses a three-dimensional substrate in which a partition wall having an opening at a central portion is formed so as to cross an inner cavity, an air passage with a non-linear structure for allowing communication between the opening and an exterior of the three-dimensional substrate is formed on a first flat surface of both surfaces of the partition wall, and a conductor land for connection is provided on a second flat surface of the partition wall, comprising process steps of:

fixing an optical filter on the first flat surface by bonding;

installing a semiconductor imaging device with respect to the conductor land for connection provided on the second flat surface;

sealing the semiconductor imaging device; and

subsequently installing an optical system for forming images in the inner cavity of the three-dimensional substrate.